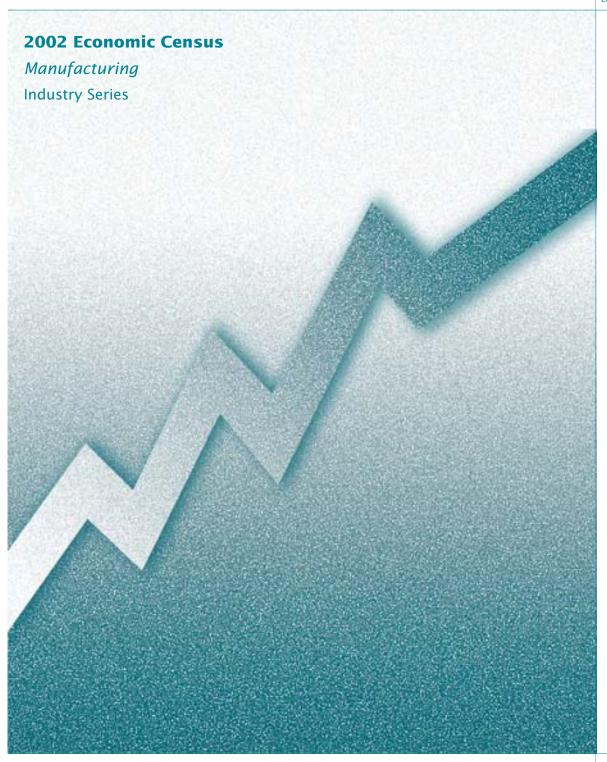
Pulp Mills: 2002

Issued September 2004

EC02-311-322110





Helping You Make Informed Decisions

U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU



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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All			Production workers				Total	Total	Total capital
Industry and year ¹	Com- panies ²		Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	shipments	expendi- tures (\$1,000)
322110, Pulp mills	21 N N N N	32 N N N N 36	7 730 7 218 7 337 7 311 7 433 8 048	469 688 414 452 411 307 389 985 397 165 417 689	5 896 5 572 5 671 5 561 5 686 6 084	12 576 11 969 11 888 11 703 12 443 12 915	333 637 291 732 291 224 274 689 279 161 295 393	1 678 376 1 413 321 1 827 072 1 442 824 1 403 944 1 507 468	1 851 509 1 847 086 1 902 416 1 634 547 1 724 924 1 694 648	3 531 242 3 238 832 3 701 423 3 113 531 3 130 246 3 263 973	190 668 193 088 236 772 186 620 415 795 344 652

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establishments ²		All employees		Production workers						
Industry and geographic area		Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)		Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	materials	Total value of shipments (\$1,000)	tures
322110, Pulp mills												
United States	-	32 4 3	31 4 3	7 730 2 138 1 061	469 688 141 071 56 071	5 896 1 670 844	12 576 3 678 1 719	333 637 104 179 41 043	1 678 376 595 033 171 752	477 569	3 531 242 1 039 660 423 533	

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

period that includes the 12th of March.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
322110, Pulp mills	
Companies ¹ number	21
All establishments ²	32 1 9 22
All employees3 number. Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	7 730 622 757 469 688 153 069
Production workers, average for year	5 896 5 914 5 842 5 907 5 920
Production worker hours	12 576 333 637
Total cost of materials \$1,000 Materials, parts, containers, packaging, etc., used \$1,000 Resales \$1,000 Purchased fuels \$1,000 Purchased electricity \$1,000 Contract work \$1,000	1 851 509 1 524 360 D D 81 540 38 118
Quantity of electricity purchased for heat and power	1 896 401 3 188 993
Total value of shipments \$1,000. Primary products value of shipments \$1,000. Secondary products value of shipments \$1,000. Total miscellaneous receipts \$1,000. Value of resales \$1,000. Contract receipts \$1,000. Other miscellaneous receipts \$1,000.	3 531 242 3 478 584 D D D D - 18 537
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industries \$1,000.	D 5 389 303 D D
Coverage ratiopercent.	D
Value added\$1,000	1 678 376
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	447 778 238 671 20 613 188 494
Total inventories, end of year \$1,000 Finished goods inventories \$1,000 Work-in-process inventories \$1,000 Materials and supplies inventories \$1,000	470 475 243 685 14 242 212 548
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000. Total capital expenditures (new and used) \$1,000. Buildings and other structures (new and used) \$1,000. Machinery and equipment (new and used) \$1,000. Automobiles, trucks, etc., for highway use \$1,000. Computers and peripheral data processing equipment \$1,000. All other expenditures for machinery and equipment \$1,000. Total retirements \$1,000.	6 460 068 190 668 5 822 184 846 D
Total retirements \$1,000. Gross value of depreciable assets at end of year \$1,000.	176 467 110 329 6 540 407
Depreciation charges during year	358 746
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	21 084 10 479 10 605
Total other expenses ⁴ \$1,000. Response coverage ratio ⁵ percent. Repair and maintenance services of buildings and/or machinery ⁴ \$1,000. Communications services ⁴ \$1,000. Legal services ⁴ \$1,000. Accounting, auditing, and bookkeeping services ⁴ \$1,000. Advertising and promotional services ⁴ \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ \$1,000. Refuse removal (including hazardous waste) services ⁴ \$1,000. Management consulting and administrative services ⁴ \$1,000. Taxes and license fees ⁴ \$1,000. All other expenses ⁴ \$1,000.	277 521 90 100 345 2 665 2 405 909 415 4 245 21 855 9 751 24 850 110 080

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class		All employees			Pr	oduction worke	ers		Total	Total	Total capital
		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
322110, Pulp mills											
All establishments	1	32	7 730	469 688	5 896	12 576	333 637	1 678 376	1 851 509	3 531 242	190 668
1 to 4 employees	_	-	_	_	_	-	_	-	-	-	_
5 to 9 employees	9	1	a	D	_ D	D	D	D	D	D	_
20 to 49 employees	-	6	C	D 40.405	D	D	D 0.71	D	D 70 500	D	1 210
50 to 99 employees	4	9	234 1 323	13 125 69 478	148 1 121	279 2 284	6 971 55 777	44 147 238 549	79 589 427 956	131 269 662 340	3 012 65 562
250 to 499 employees	1	9	3 060	206 868	2 187	4 648	140 402	704 285	696 521	1 400 798	60 847
500 to 999 employees	_	4	2 905	171 590	2 286	5 036	124 796	665 021	589 470	1 252 159	60 037
1,000 to 2,499 employees	_	_	_	_	_	_	_	_	_	_	_
• •											
Administrative records ⁴	_	_	_	_	_	_	_	_	_	_	_

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or		All	All em	ployees	Production workers				Total	Total	Total capital
product class code	Industry or primary product class	estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
322110	Pulp mills	32	7 730	469 688	5 896	12 576	333 637	1 678 376	1 851 509	3 531 242	190 668
3221101	Special alpha and dissolving woodpulp (sulfite and sulfate for chemical conversion, papermaking, and other uses)	4	2 077	118 267	1 693	3 720	90 210	395 411	378 613	779 133	44 937
3221103 3221105 3221107	Sulfate woodpulp, including soda Sulfite and other woodpulp All other miscellaneous pulp, other than wood, and pulp mill	13 3	4 302 c	280 211 D	3 357 D	7 060 D	208 096 D	1 087 480 D	1 172 511 D	2 246 875 D	123 144 1 966
	byproducts	11	g	D	D	D	D	D	D	D	20 621

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of		Product :	shipments
Product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
322110	Pulp mills	N N	X	X	5 389 303 6 371 092
3221101	Special alpha and dissolving woodpulp (sulfite and sulfate for chemical conversion, papermaking, and other uses)	N.	×	X X	895 538
32211011	Special alpha and dissolving woodpulp (sulfite and sulfate for chemical conversion, papermaking, and other uses)	N N	x	Х	842 210 895 538
3221101100	Special alpha and dissolving woodpulp (sulfite and sulfate for chemical conversion, papermaking, and other uses)	N 5	2 416.8	1 414.2	842 210 895 538
3221103	Sulfate woodpulp, including soda	6 N	1 039.3 X	1 073.2 X	842 210 3 818 142
32211031	Sulfate woodpulp, including soda	N N N	X X X	X X X	4 638 302 3 814 052 4 638 302
3221103111	Sulfate woodpulp, bleached and semibleached, including soda	18	23 991.5	P8 852.3	3 583 880
3221103121	Sulfate woodpulp, unbleached	28 8 9	27 302.7 23 232.2 25 766.6	10 069.2 S 909.0	4 387 129 230 172 251 173
3221103Y	Sulfate woodpulp, including soda, nsk	N N	X X X	X X	4 090
3221103YWV	Sulfate woodpulp, including soda, nsk	N N	X	X X	4 090 —
3221105	Sulfite and other woodpulp	N N	X	X	180 559 251 393
32211051	Sulfite and other woodpulp	N N	X	X X X	180 559 251 393
3221105111	Sulfite woodpulp, bleached and unbleached 1,000 s tons (dry basis) 2002	3 7	1 920.9 1 813.8	X D 456.6	D 208 426
3221105121	Groundwood pulp (stone, refiner, and thermomechanical) 1, 000 s tons (dry basis) 2002	1 1	5 597.6 6 710.7	D D	D D
3221105131	Semichemical woodpulp	1 2	3 902.9 P4 584.2	D	D
3221105141	Other woodpulp, including defibrated or exploded, screenings, damaged, etc	5	1 689.5	D	D
3221105Y	Sulfite and other woodpulp, nsk	N N	D X	X	=
3221105YWV	Sulfite and other woodpulp, nsk	N N N	X X X	X X X	- - -
3221107	All other miscellaneous pulp, other than wood, and pulp mill byproducts	, N	X	X	485 588
32211071	All other miscellaneous pulp, other than wood, and pulp mill byproducts	N N	X X	X X	639 187 485 477
3221107123	Pulp, other than wood, including pulp made from cotton	N	Х	Х	639 187
	linters, straw, rag, flax, deinked paper, bagasse, etc	14 N	2 533.9 N	⁹¹ 171.3 N	452 687 N
3221107131	Turpentine, sulfate	16 30	131.0 ^q 30.8	⁹ 19.9 27.0	13 576 41 133
3221107141	Other pulp mill cooking liquor byproducts (skimmings, binders, fuel, etc.)	10 12	1 408.1 P1 827.2	415.7 1 546.0	19 214 79 413
3221107Y	All other miscellaneous pulp, other than wood, and pulp mill byproducts, nsk	N N	X X	X	111
3221107YWV	All other miscellaneous pulp, other than wood, and pulp mill byproducts, nsk	N N	X	X	111 _
322110W	Pulp mills, nsk, total	N.	X	X	9 476
322110WY	Pulp mills, nsk, total	N N	X	X	9 476
322110WYWW	Pulp mills, nsk, for nonadministrative-record establishments	N N	X X	X X	9 476
322110WYWY	Pulp mills, nsk, for administrative-record establishments	N N N	X X X	X X X	- - -

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3221101	Special alpha and dissolving woodpulp (sulfite and sulfate for chemical conversion, papermaking, and other uses)	
	United States	895 538 842 210
3221103	Sulfate woodpulp, including soda	
	United States	3 818 142 4 638 302
	Georgia	765 308 741 147
3221105	Sulfite and other woodpulp	
	United States	180 559 251 393
3221107	All other miscellaneous pulp, other than wood, and pulp mill byproducts	
	United States. 2002. 1997. Georgia 2002. 1997. 1997.	485 588 639 187 8 496 23 106

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
322110	Pulp mills		
00900001	Total materials	X	1 524 360 1 413 167
11331009	Southern pine pulpwood bolts and logs	X P4 701.6 3 059.4	266 111
11331024	Pulpwood bolts and logs, other softwood (including Hemlock, Douglas fir, and Jack pine)	3 059.4 D N	241 385 D N
32100009	Softwood pulpwood wood chips, slabs, cores, sawdust, bark, and other mill residues	P5 028.6	343 903
11331027	1997 Hardwood pulpwood bolts and logs	3 026.2 X X	257 514 86 056 N
32100011	Hardwood pulpwood wood chips, slabs, cores, sawdust, bark, and other mill residues	91 113.1 1 199.7	97 093 94 581
32518103	Chlorine (100 percent Cl basis)	922.0	4 113
32518107	Sodium hydroxide (caustic soda)(100 percent NaOH)	63.9 9437.8	13 576 84 326
32518823	Sodium chlorate (100 percent NaClO ₃)	430.3 P246.0 169.8	79 515 85 830 54 820
32510007	Other sodium compounds	X	11 176
32518813	Aluminum sulfate (17 percent Al ₂ O ₃)	X D	11 765 D 1 170
32741003	Lime	910.8 P163.9 132.5	12 902 8 815
32500010	All other chemicals (including rosin sizing, kaolin and ball clay, starch, synthetic resins, titanium dioxide, calcium carbonate, and organic chemicals)	X	106 525 N
32210027	Woodpulp (air dry basis)	Ď N	D
00190005	Recovered paper, all types	X	80 871 N
001900A2	Packaging paper and plastics film (including coated, laminated, printed, etc.)	X X	15 220 D
32221001	Paperboard containers, boxes, and corrugated paperboard	X X	D D
00970099	All other materials and components, parts, containers, and supplies	x X	268 202 619 296
00971000	Materials, ingredients, containers, and supplies, nsk .20021997	X	26 669 24 614

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.